DoD
DATA ADMINISTRATION

Briefing to the
House Appropriations Committee
Mr. David Roberts
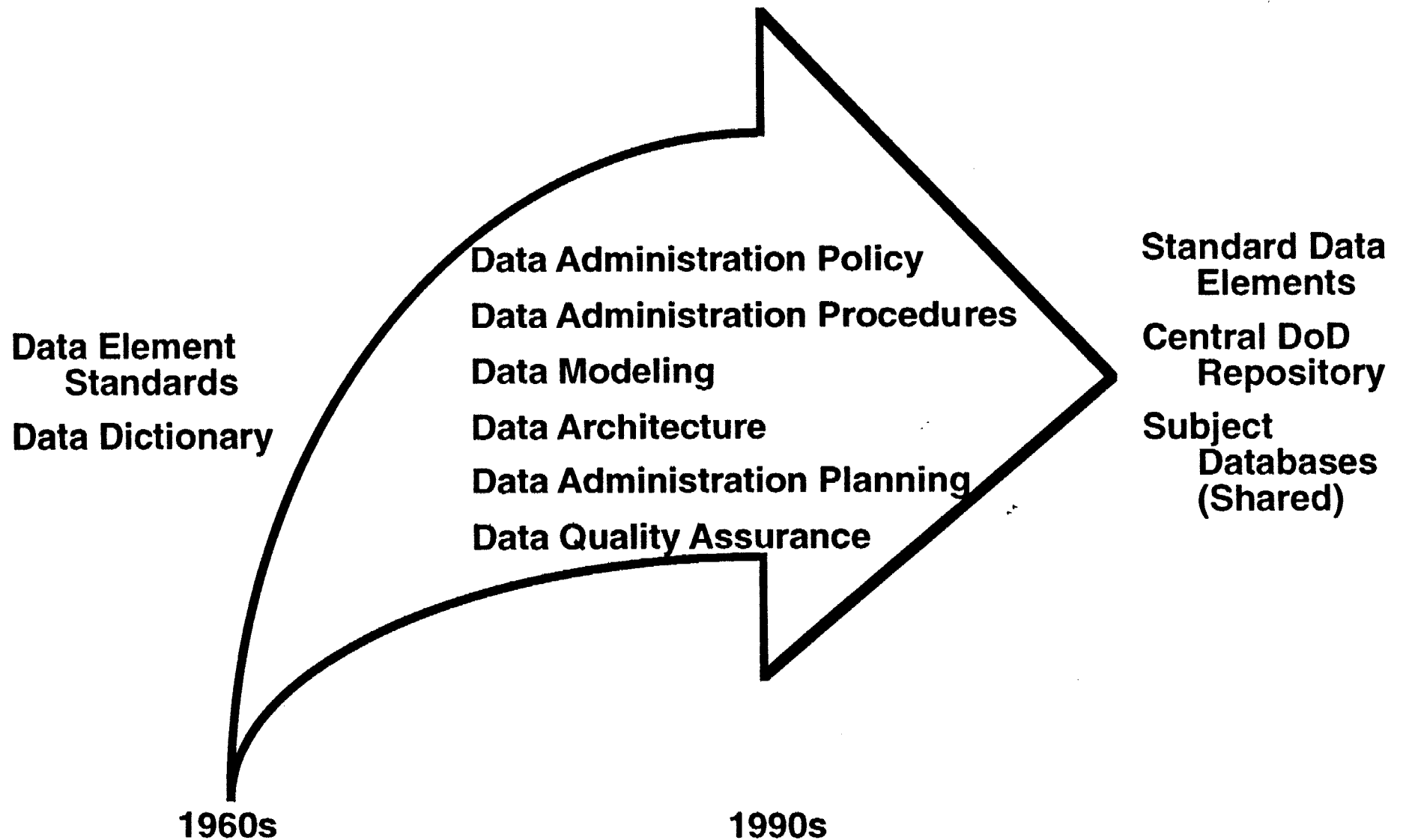
Mrs. Belkis Leong-Hong
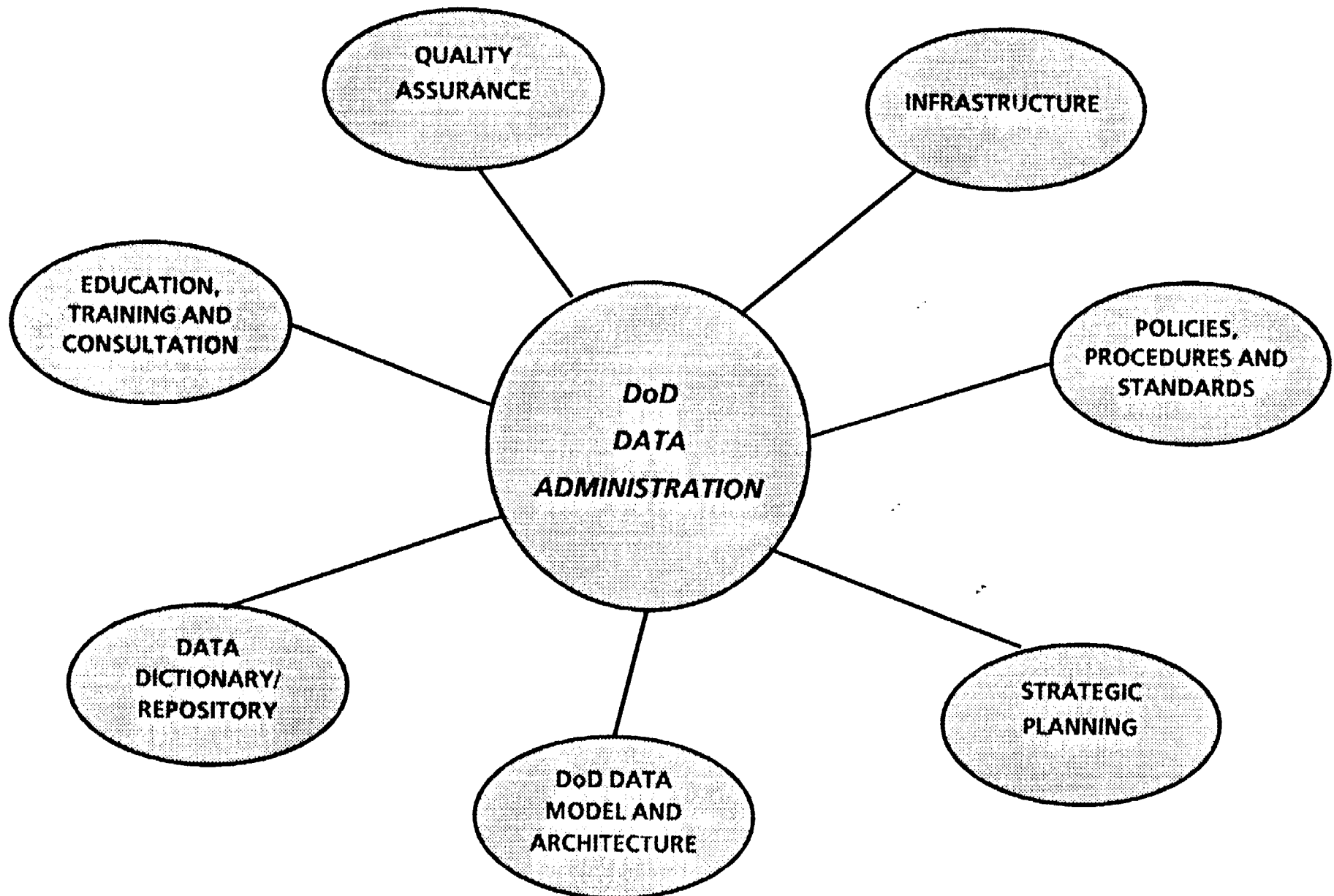
20 August 1992

WHAT IS DATA ADMINISTRATION?

"THE RESPONSIBILITY FOR DEFINITION, ORGANIZATION, SUPERVISION, AND PROTECTION OF DATA WITHIN AN ENTERPRISE OR ORGANIZATION."

- DoDD 8320.1, DoD DATA ADMINISTRATION
SEPTEMBER 26, 1991

What Is Different Now?

Data Element
Standards

Data Dictionary

Data Administration Policy

Data Administration Procedures

Data Modeling

Data Architecture

Data Administration Planning

Data Quality Assurance

Standard Data
Elements

Central DoD
Repository

Subject
Databases
(Shared)

1960s

1990s

ELEMENTS OF THE DoD DATA ADMINISTRATION PROGRAM

QUALITY ASSURANCE

INFRASTRUCTURE

EDUCATION, TRAINING AND CONSULTATION

DoD DATA ADMINISTRATION

POLICIES, PROCEDURES AND STANDARDS

DATA DICTIONARY/ REPOSITORY

DoD DATA MODEL AND ARCHITECTURE

STRATEGIC PLANNING

DoD Data Evolution

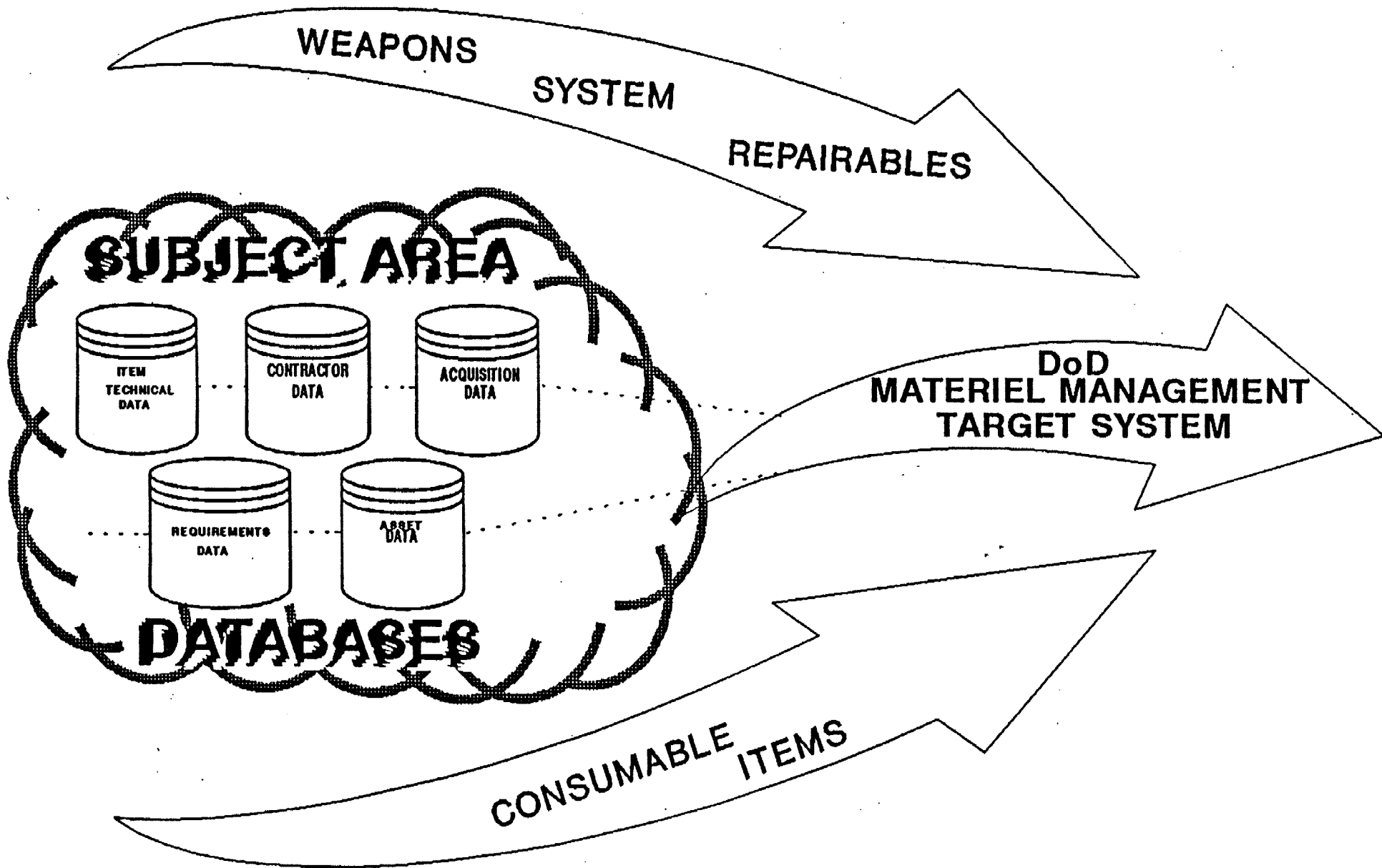| CATEGORY	1960's	1990's	ACTION(s)/ACCOMPLISHMENTS
DA Policy	Service/Agency	DoD	• DODD 8320.1, 9/26/91 • Top Management Support
DA Procedures	Service/Agency	DoD	• DoD 8320.1-M (Draft) - Concept of Operations - Roles and Responsibilities - Procedures -- Data Administration Program Administration -- Technical Infrastructure -- Operational Services - Glossary
DA Infrastructure	None	DoD & Svc/Agcy	• DoD DA Program Established • DA Program Roles and Responsibilities • DoD Data Administrator Designated • DA Council Established January 1992
Data Standards	DoD	DoD	• DoD 8320.1-M-1 (Draft) Data Element Standardization Procedures for Model-Based Standard Data Elements • Legacy Data Elements for Analysis

DoD Data Evolution (Continued)

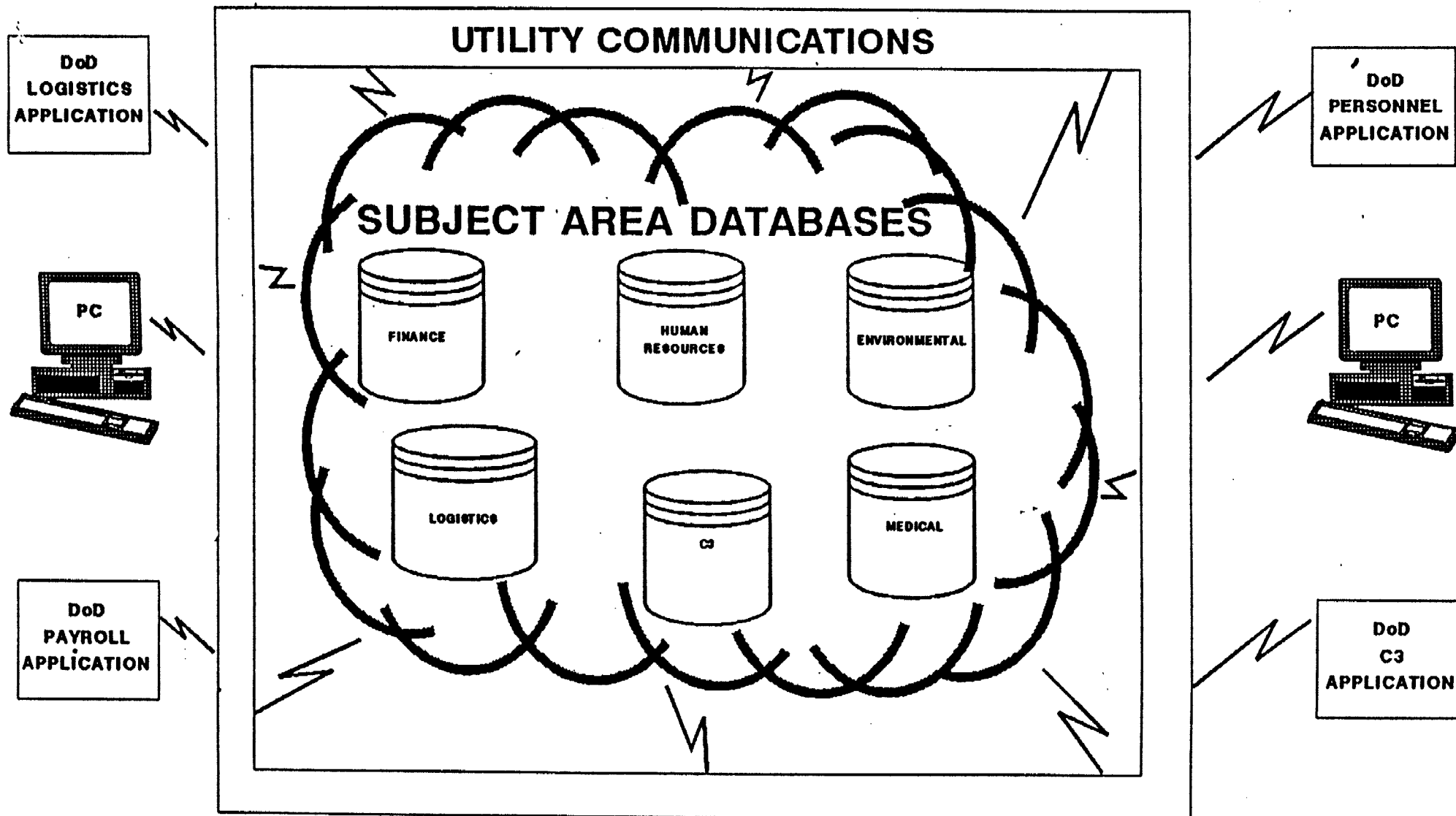| CATEGORY	1960's	1990's	ACTION(s)/ACCOMPLISHMENTS
Data Dictionary	DoD	DoD	• DDRS IOC 8/92 • Migrate Repository to Open Systems • Expedite Population
Data Modeling	Service/Agency	DoD	• DoD Data Model and Architecture • IDEF1X
DA Planning	Service/Agency	DoD	• DA Strategic Plan (Annual) • DA Implementation Plans • Data Management Plan (DMP)
Data Quality Assurance	Service/Agency	DoD	• Changes Proposed to Strengthen DA Activities in AIS Life Cycle/MAISRC Review Policies • Guidance in DoD 8320.1-M

Future of DoD Data Administration

INFRASTRUCTURE	CATALYST	RESULT

Policies

Procedures

Standards

Tools   Implement   DOD Data   Manage

Architecture   Administration

Organization   Program

Plans

Methodology

Standard Data That is Shared

Cultural Change

Cost Effective Systems Based on Business Needs

Life Cycle
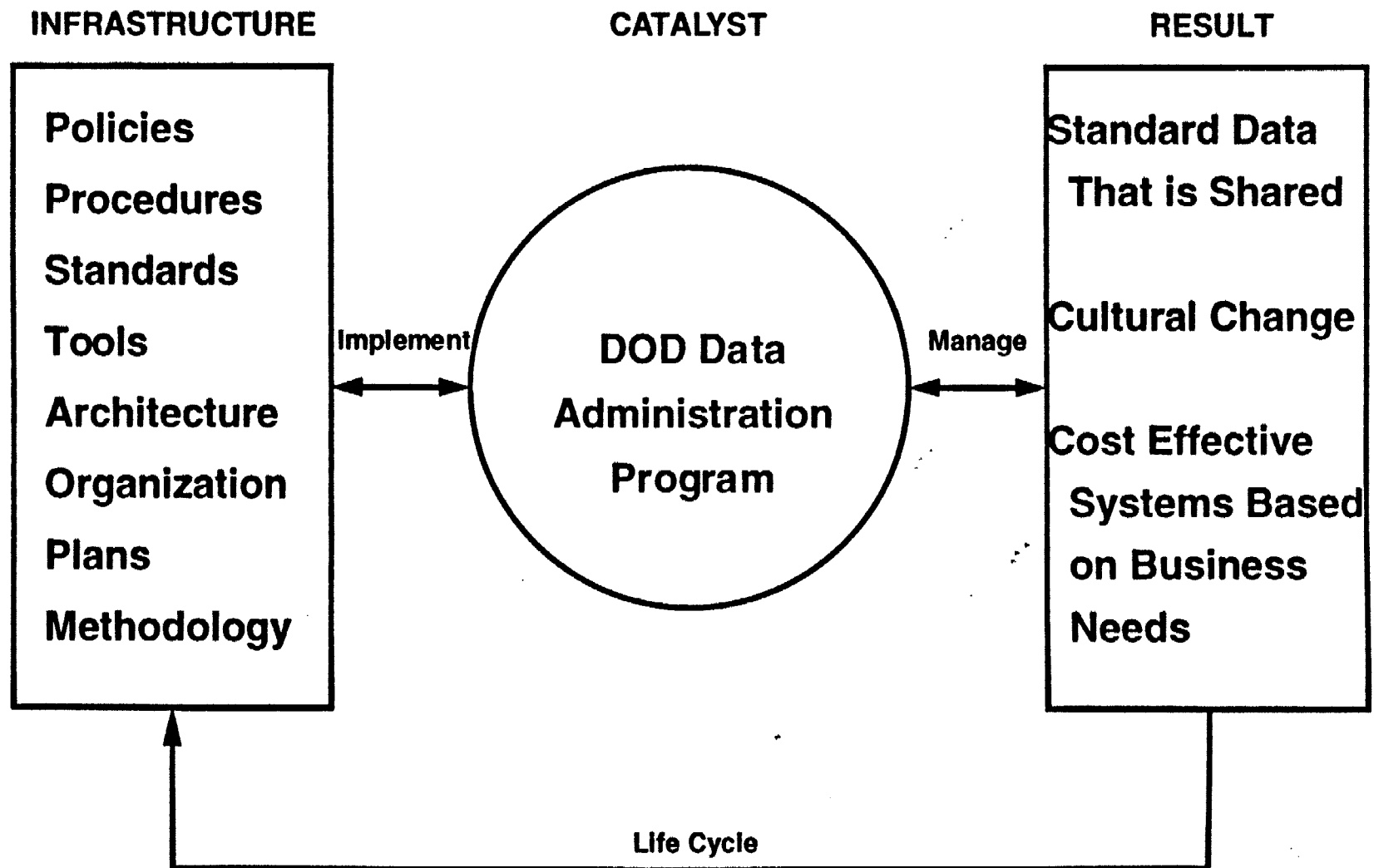
Key Challenges

- **Technical**
  - **Tools**
  - **Library Cataloging, Storage, and Retrieval**
    of Higher-Level Components
  - **Library Interoperability**
  - **Design of Components for Reuse**
  - **Coordination of Domain Analysis & Population**
  - **Selection of Components for Reuse**
  - **Integration with I-CASE and Data Repositories**

- **Non-technical**
  - **Incentives (for developer & user)**
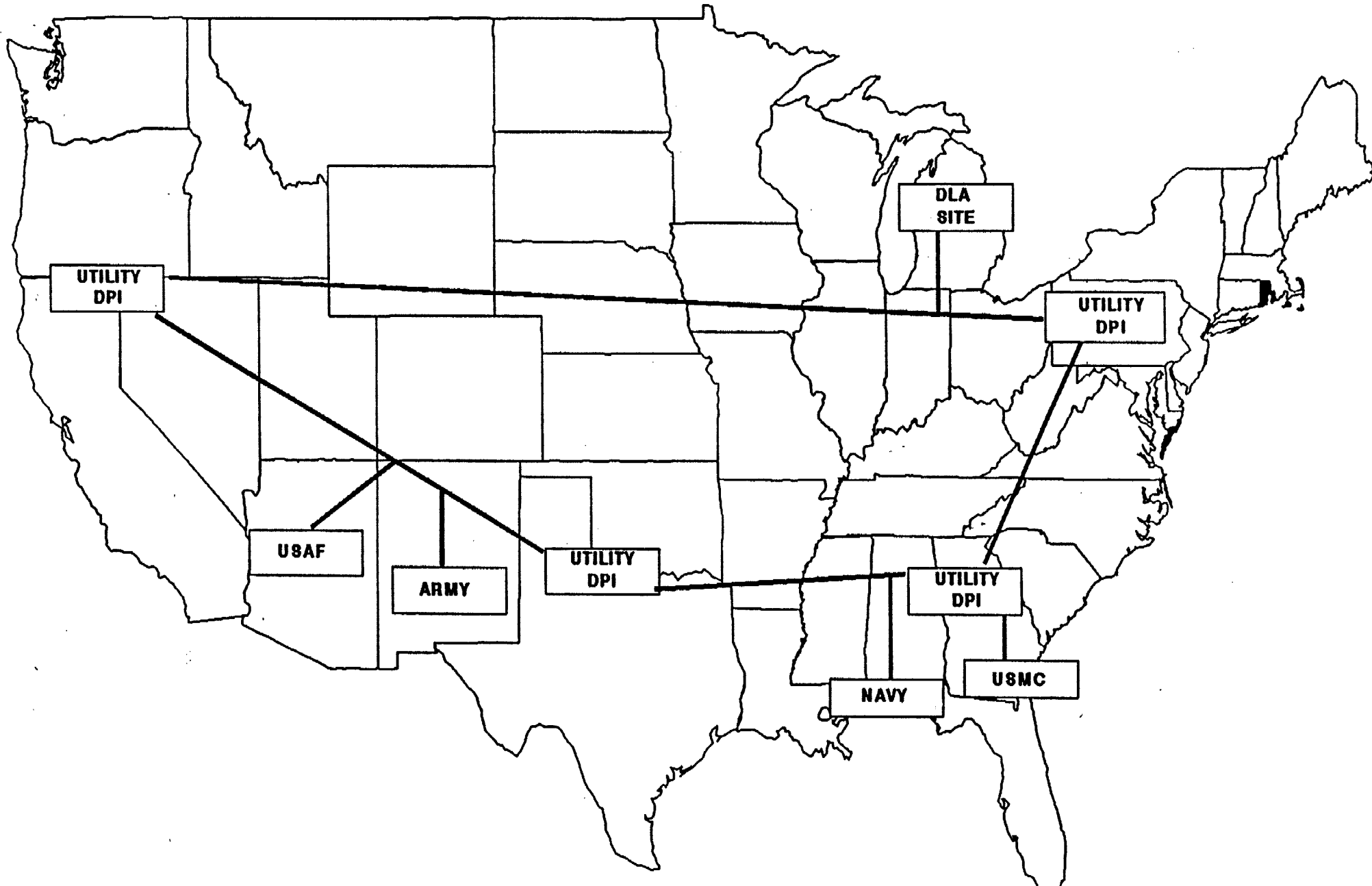 - **Legal & Contracts (data rights, warranty)**
  - **Reuse Measurement**
  - **Policy**
  - **Culture**

WEAPONS
SYSTEM
REPAIRABLES

SUBJECT AREA

ITEM
TECHNICAL
DATA

CONTRACTOR
DATA

ACQUISITION
DATA

REQUIREMENTS
DATA

ASSET
DATA

DATABASES

DoD
MATERIEL MANAGEMENT
TARGET SYSTEM

CONSUMABLE ITEMS

TARGET ENVIRONMENT

FUTURE
LINKING IT TOGETHER